

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/997,807

DATE: 12/07/2001

TIME: 12:41:21

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\12072001\I997807.raw

ENTERED

4 <110> APPLICANT: Jay Short
 5 Eric J. Mathur
 6 W. Michael Lafferty
 7 Nelson Barton
 8 Kevin Chow
 10 <120> TITLE OF INVENTION: Method of Making A Protein Polymer and
 11 Uses of the Polymer
 13 <130> FILE REFERENCE: DVSA-1005US
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/997,807
 C--> 15 <141> CURRENT FILING DATE: 2001-11-30
 15 <150> PRIOR APPLICATION NUMBER: 60/250,426
 16 <151> PRIOR FILING DATE: 2000-11-30
 18 <160> NUMBER OF SEQ ID NOS: 10
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 624
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Pyrodictium abyssi
 27 <400> SEQUENCE: 1
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 29 ctacgaggct tcgccaccac ccagagcccc ctcaacagct tctacgccac cggtagcaga 120
 30 caggcagtaa gcgagccaat agacgtagaa agccacctcg gcagcataac cccgcagcc 180
 31 ggcgcacagg gcagtgacga cataggttac gcaatagtgt ggataaagga ccaggtcaat 240
 32 gatgtaaaagc tgaagggtgac cctgcgtaac gctgagcagc taaagcccta cttcaagtac 300
 33 ctacagatac agataacaag cggctatgag acgaacagca cagctctagg caacttcagc 360
 34 gagaccaagg ctgtgataag cctcgacaac cccagcgccg tgatagtact agacaaggag 420
 35 gatatagcag tgctctatcc ggacaagacc ggttacacaa acacttcgat atgggtaccc 480
 36 ggtgaacctg acaagataat tgtctacaac gagacaaagc cagtagctat actgaacttc 540
 37 aaggccttct acgaggctaa ggagggtatg ctattcgaca gcctgccagt gatattcaac 600
 38 ttccaggtgc tacaagtagg ctaa 624
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 207
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Pyrodictium abyssi
 45 <400> SEQUENCE: 2
 46 Val Lys Tyr Thr Thr Leu Ala Ile Ala Gly Ile Ile Ala Ser Ala Ala
 47 1 5 10 15
 48 Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
 49 20 25 30
 50 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
 51 35 40 45
 52 Val Glu Ser His Leu Gly Ser Ile Thr Pro Ala Ala Gly Ala Gln Gly
 53 50 55 60
 54 Ser Asp Asp Ile Gly Tyr Ala Ile Val Trp Ile Lys Asp Gln Val Asn
 55 65 70 75 80
 56 Asp Val Lys Leu Lys Val Thr Leu Arg Asn Ala Glu Gln Leu Lys Pro
 57 85 90 95

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58 Tyr Phe Lys Tyr Leu Gln Ile Gln Ile Thr Ser Gly Tyr Glu Thr Asn
59      100      105      110
60 Ser Thr Ala Leu Gly Asn Phe Ser Glu Thr Lys Ala Val Ile Ser Leu
61      115      120      125
62 Asp Asn Pro Ser Ala Val Ile Val Leu Asp Lys Glu Asp Ile Ala Val
63      130      135      140
64 Leu Tyr Pro Asp Lys Thr Gly Tyr Thr Asn Thr Ser Ile Trp Val Pro
65 145      150      155      160
66 Gly Glu Pro Asp Lys Ile Ile Val Tyr Asn Glu Thr Lys Pro Val Ala
67      165      170      175
68 Ile Leu Asn Phe Lys Ala Phe Tyr Glu Ala Lys Glu Gly Met Leu Phe
69      180      185      190
70 Asp Ser Leu Pro Val Ile Phe Asn Phe Gln Val Leu Gln Val Gly
71      195      200      205
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 513
76 <212> TYPE: DNA
77 <213> ORGANISM: Pyrodictium abyssi
79 <400> SEQUENCE: 3
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81 ctagcaggct tcgccaccac ccagagcccc ctcaacagct tctacgccac cggcacagca 120
82 gccgcaacaa gcgagccaat agacgtagag agccacctca gcagcatagc ccctgctgct 180
83 ggcgcacagg gcagccagga cataggctac ttcaacgtga ccgccaagga tcaagtgaac 240
84 gtgacaaaga taaagggtgac cctggctaac gctgagcagc taaagcccta cttcaagtac 300
85 ctacagatag tgctaaagag cgaggtagct gacgagatca aggccgtaat aagcatagac 360
86 aagcctagcg ccgtcataat actagacagc caggacttcg acagcaacaa cagagcaaaag 420
87 ataagcgcca ctgcctacta cgaggctaag gagggcatgc tattcgacag cctaccgcta 480
88 atattcaaca tacaggtgct aagcgtcagc taa      513
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 170
92 <212> TYPE: PRT
93 <213> ORGANISM: Pyrodictium abyssi
95 <400> SEQUENCE: 4
96 Val Lys Pro Thr Ala Leu Ala Leu Ala Gly Ile Ile Ala Ser Ala Ala
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98 Asp Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
99      20      25      30
100 Ser Phe Tyr Ala Thr Gly Thr Ala Ala Ala Thr Ser Glu Pro Ile Asp
101      35      40      45
102 Val Glu Ser His Leu Ser Ser Ile Ala Pro Ala Ala Gly Ala Gln Gly
103      50      55      60
104 Ser Gln Asp Ile Gly Tyr Phe Asn Val Thr Ala Lys Asp Gln Val Asn
105 65      70      75      80
106 Val Thr Lys Ile Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys Pro
107      85      90      95
108 Tyr Phe Lys Tyr Leu Gln Ile Val Leu Lys Ser Glu Val Ala Asp Glu
109      100      105      110
110 Ile Lys Ala Val Ile Ser Ile Asp Lys Pro Ser Ala Val Ile Ile Leu
111      115      120      125

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112 Asp Ser Gln Asp Phe Asp Ser Asn Asn Arg Ala Lys Ile Ser Ala Thr
113      130      135      140
114 Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser Leu Pro Leu
115 145      150      155      160
116 Ile Phe Asn Ile Gln Val Leu Ser Val Ser
117      165      170
120 <210> SEQ ID NO: 5
121 <211> LENGTH: 537
122 <212> TYPE: DNA
123 <213> ORGANISM: Pyrodictium abyssi
125 <400> SEQUENCE: 5
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127 ctagcaggct tcgccacgac ccagagcccg ctaagcagct tctacgccac cggcacagca 120
128 caagcagtaa gcgagccaat agacgtagag agccacctag acaacaccat agcccctgct 180
129 gccggtgcac agggctacaa ggacatgggc tacattaaga taactaacca gtcaaaagtt 240
130 aatgtaataa agctgaaggt gactctcgct aacgccgagc agctaaagcc ctacttcgac 300
131 tacctacagc tagtactcac aagcaacgcc actggcaccg acatgggttaa ggctgtgcta 360
132 agcctcgaga agcctagcgc agtcataata ctagacaacg atgactacga tagcactaac 420
133 aagatacagc taaaggtaga agcctactat gaggctaagg agggcatgct attcgacagc 480
134 ctaccagtaa tactgaactt ccagggtactg agcgccgctt gcagtccttt gtggtga 537
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 178
138 <212> TYPE: PRT
139 <213> ORGANISM: Pyrodictium abyssi
141 <400> SEQUENCE: 6
142 Met Arg Tyr Thr Thr Leu Ala Leu Ala Gly Ile Val Ala Ser Ala Ala
143 1      5      10      15
144 Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Ser
145      20      25      30
146 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
147      35      40      45
148 Val Glu Ser His Leu Asp Asn Thr Ile Ala Pro Ala Ala Gly Ala Gln
149      50      55      60
150 Gly Tyr Lys Asp Met Gly Tyr Ile Lys Ile Thr Asn Gln Ser Lys Val
151 65      70      75      80
152 Asn Val Ile Lys Leu Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys
153      85      90      95
154 Pro Tyr Phe Asp Tyr Leu Gln Leu Val Leu Thr Ser Asn Ala Thr Gly
155      100     105     110
156 Thr Asp Met Val Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val
157      115     120     125
158 Ile Ile Leu Asp Asn Asp Asp Tyr Asp Ser Thr Asn Lys Ile Gln Leu
159      130     135     140
160 Lys Val Glu Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser
161 145     150     155     160
162 Leu Pro Val Ile Leu Asn Phe Gln Val Leu Ser Ala Ala Cys Ser Pro
163      165     170     175
164 Leu Trp
168 <210> SEQ ID NO: 7

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169 <211> LENGTH: 311
170 <212> TYPE: DNA
171 <213> ORGANISM: Pyrodictium abyssi
173 <400> SEQUENCE: 7
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175 ctcggtacgc taaatactgc cgctggtgca cagggttaagc agacgctagg agacataaca 120
176 atatatgcgc acaatgacgt gaacataaca aagctaaagg tcacgcttgc taacgctgca 180
177 cagctaagac catacttcaa gtacctgata ataaagctag taagcctgga cagcaacggc 240
178 aacgagtccg aggaaaaggg catgataact ctatggaagc cttacgccgt gataatacta 300
179 gaccatgaag a 311
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 130
183 <212> TYPE: PRT
184 <213> ORGANISM: Pyrodictium abyssi
186 <400> SEQUENCE: 8
187 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
188 1 5 10 15
189 Val Val Ser Ser Leu Gly Thr Leu Asn Thr Ala Ala Gly Ala Gln Gly
190 20 25 30
191 Lys Gln Thr Leu Gly Asp Ile Thr Ile Tyr Ala His Asn Asp Val Asn
192 35 40 45
193 Ile Thr Lys Leu Lys Val Thr Leu Ala Asn Ala Ala Gln Leu Arg Pro
194 50 55 60
195 Tyr Phe Lys Tyr Leu Ile Ile Lys Leu Val Ser Leu Asp Ser Asn Gly
196 65 70 75 80
197 Asn Glu Ser Glu Glu Lys Gly Met Ile Thr Leu Trp Lys Pro Tyr Ala
198 85 90 95
199 Val Ile Ile Leu Asp His Glu Asp Phe Asn Asn Asp Ile Asp Gly Asp
200 100 105 110
201 Asn Gln Cys Gln Ile Asp Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly
202 115 120 125
203 Met Leu
204 130
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 372
209 <212> TYPE: DNA
210 <213> ORGANISM: Pyrodictium abyssi
212 <400> SEQUENCE: 9
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214 cttaacacgg ccatagcccc tgctgccggc gccagggca gcgtgggcat aggcagcata 120
215 acaatagaga acaagactga cgtgaacgtt gtgaagctga agataaccct cgccaacgct 180
216 gagcagctaa agccctactt cgactaccta cagatagtgc taaagagcgt tgacagcaac 240
217 gagatcaagg ctgtgctaag cctcgagaag cccagcgagc tcataatact ggacaacgag 300
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221 <210> SEQ ID NO: 10
222 <211> LENGTH: 124
223 <212> TYPE: PRT
224 <213> ORGANISM: Pyrodictium abyssi

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226 <400> SEQUENCE: 10

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227 Ser Phe Tyr Ala Thr Gly Thr Ala Glu Ala Thr Ser Glu Pro Ile Asp
228 1          5          10          15
229 Val Val Ser Asn Leu Asn Thr Ala Ile Ala Pro Ala Ala Gly Ala Gln
230          20          25          30
231 Gly Ser Val Gly Ile Gly Ser Ile Thr Ile Glu Asn Lys Thr Asp Val
232          35          40          45
233 Asn Val Val Lys Leu Lys Ile Thr Leu Ala Asn Ala Glu Gln Leu Lys
234          50          55          60
235 Pro Tyr Phe Asp Tyr Leu Gln Ile Val Leu Lys Ser Val Asp Ser Asn
236 65          70          75          80
237 Glu Ile Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val Ile Ile
238          85          90          95
239 Leu Asp Asn Glu Asp Phe Gln Gly Gly Asp Asn Gln Cys Gln Ile Asp
240          100         105         110
241 Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu
242          115         120
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VERIFICATION SUMMARY

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Output Set: N:\CRF3\12072001\I997807.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date